

**EXPRESS MAIL LABEL NO. EL692233552US**

**PATENT**  
Attorney Docket No. PRT-007

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANTS: Holtzman et al.  
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TITLE:

Assistant Commissioner for Patents  
Washington, D.C. 20231

**TRANSMITTAL OF FORMAL DRAWINGS**

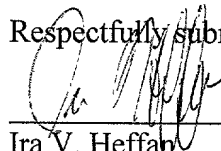
Sir:

The formal drawings for this application - Number of Sheets - Eight (8) are attached.

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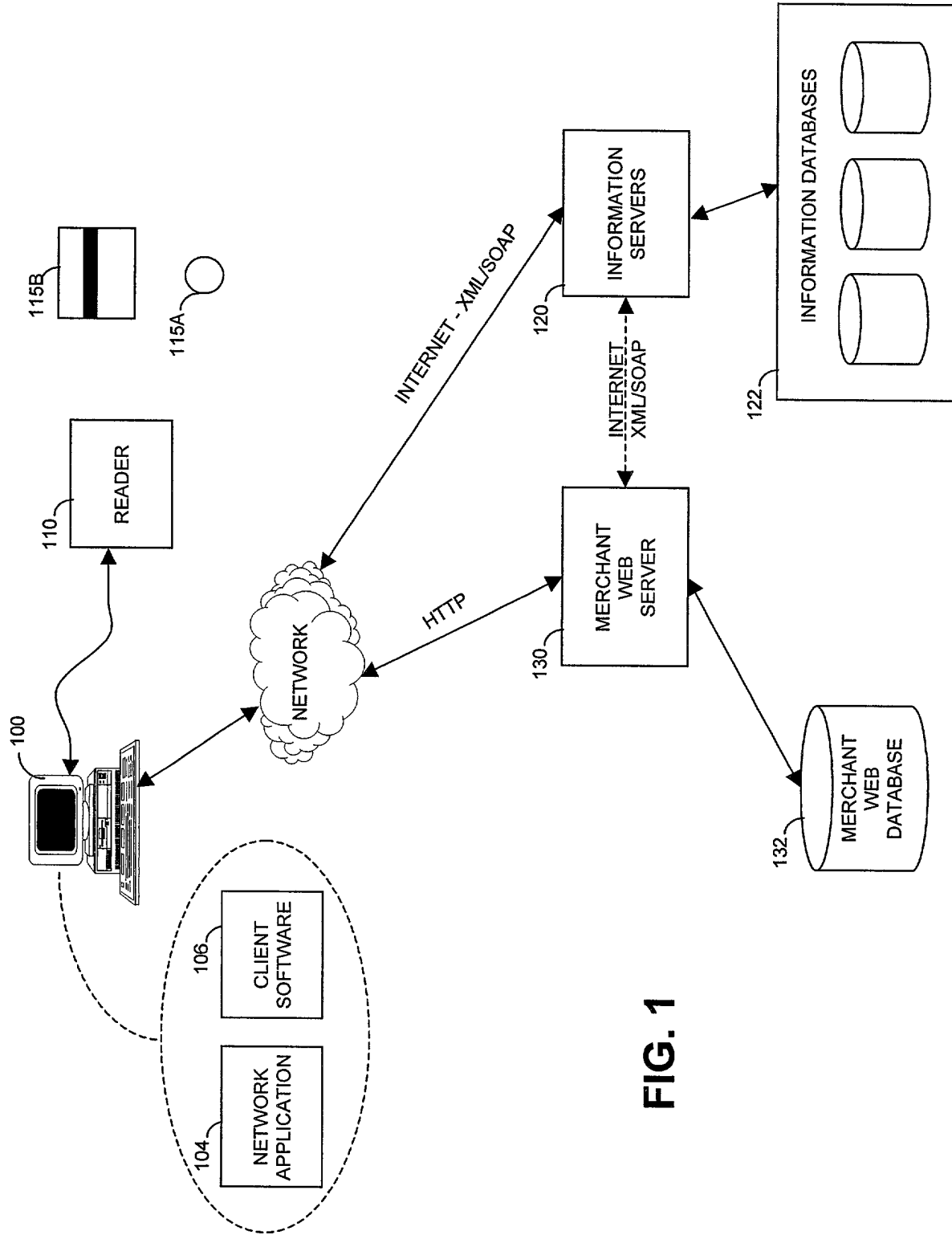
Respectfully submitted,



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FIG. 1 is a block diagram of a system architecture. The system includes a client device 100, a network 104, a merchant web server 130, information servers 120, and information databases 122. The client device 100 is connected to the network 104 via a reader 110. The network 104 is connected to the merchant web server 130 via HTTP. The merchant web server 130 is connected to the information servers 120 via INTERNET - XML/SOAP. The information servers 120 are connected to the information databases 122 via INTERNET - XML/SOAP. The client device 100 also includes client software 106 and a network application 104.



**FIG. 1**

FIG. 2 is a block diagram of a system for processing a magnetic stripe and a tag. The system includes a reader (210) connected to a personal computer (200). The personal computer (200) is connected to an information server (230), which is connected to a database (232). The personal computer (200) also includes client software (205). The reader (210) is connected to a magnetic stripe (215A) and a tag (215B). The personal computer (200) is connected to two websites (220 and 222) via client software (205). Website A (220) includes fields for NAME, ADDRESS, CITY, STATE, ZIP, PHONE, CREDIT CARD #, and EXP. DATE. Website B (222) includes fields for USERNAME and PASSWORD.

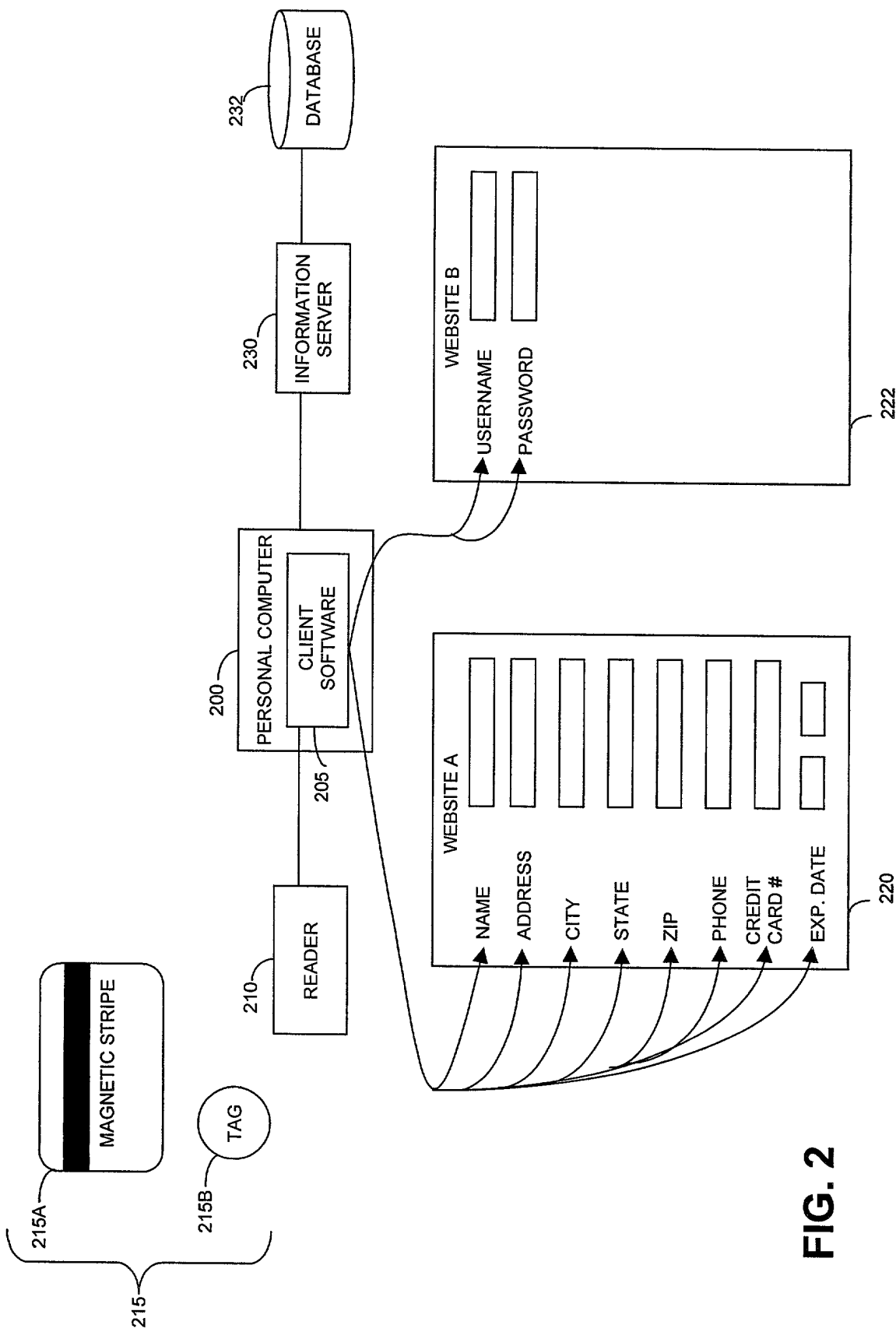
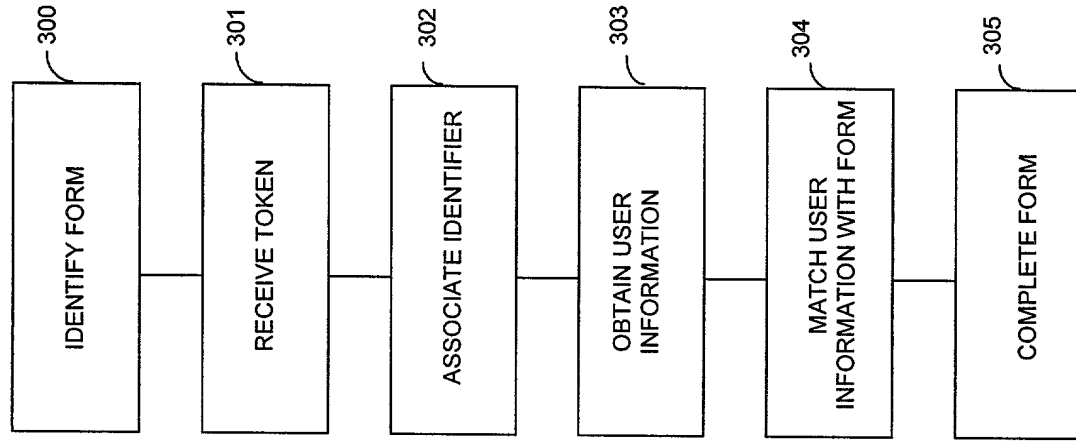


FIG. 2



**FIG. 3**

FIG. 4 is a block diagram of a system for processing a magnetic stripe. The system includes a magnetic stripe 415, a reader 410, a personal computer 400, an information server 430, and a database 432. The reader 410 is connected to the personal computer 400 via a connection 405. The personal computer 400 includes client software. The information server 430 is connected to the personal computer 400 and the database 432. The client software is connected to a website 420, which displays fields for NAME, ADDRESS, CITY, STATE, ZIP, PHONE, CREDIT CARD #, and EXP. DATE.

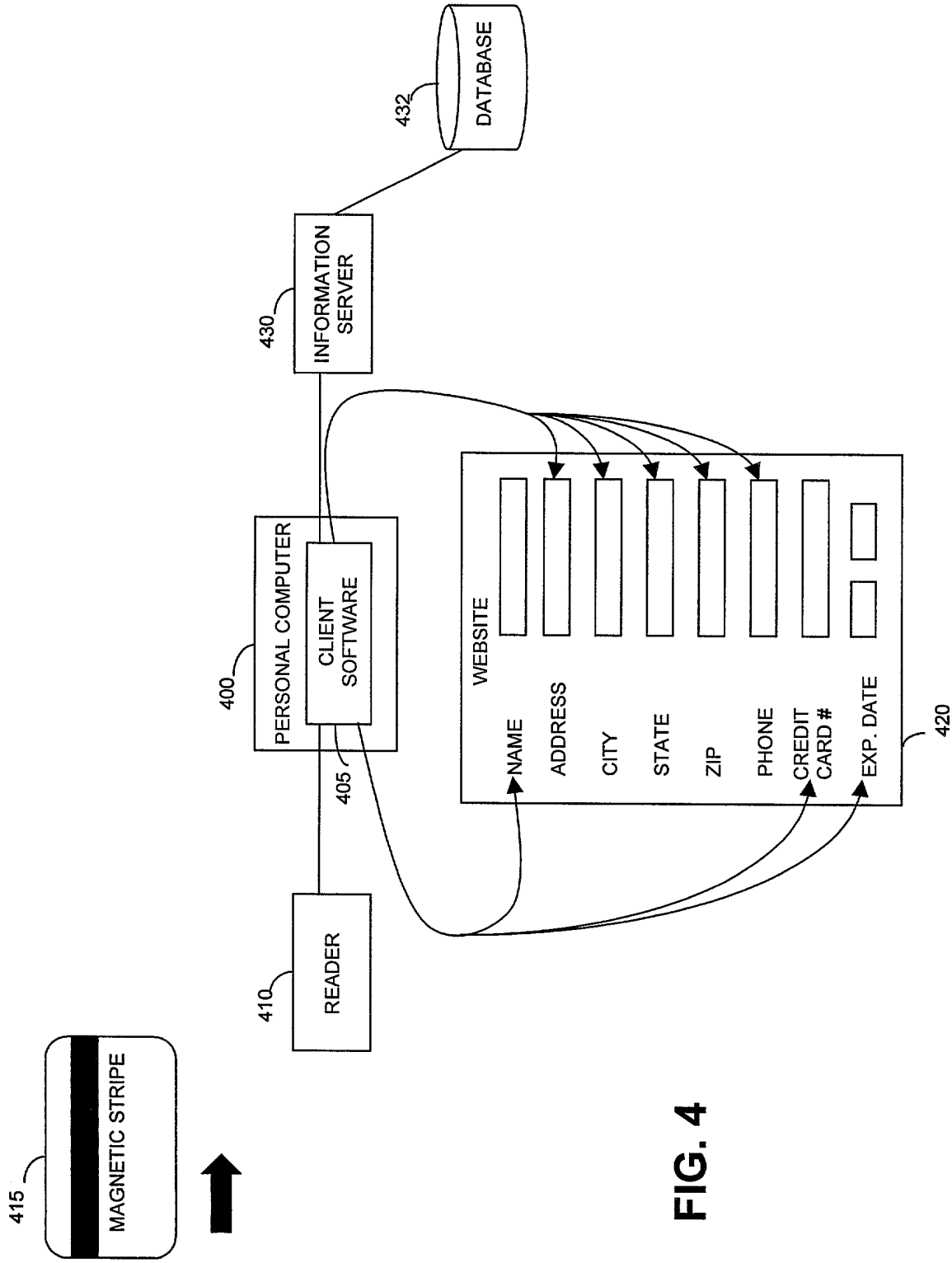
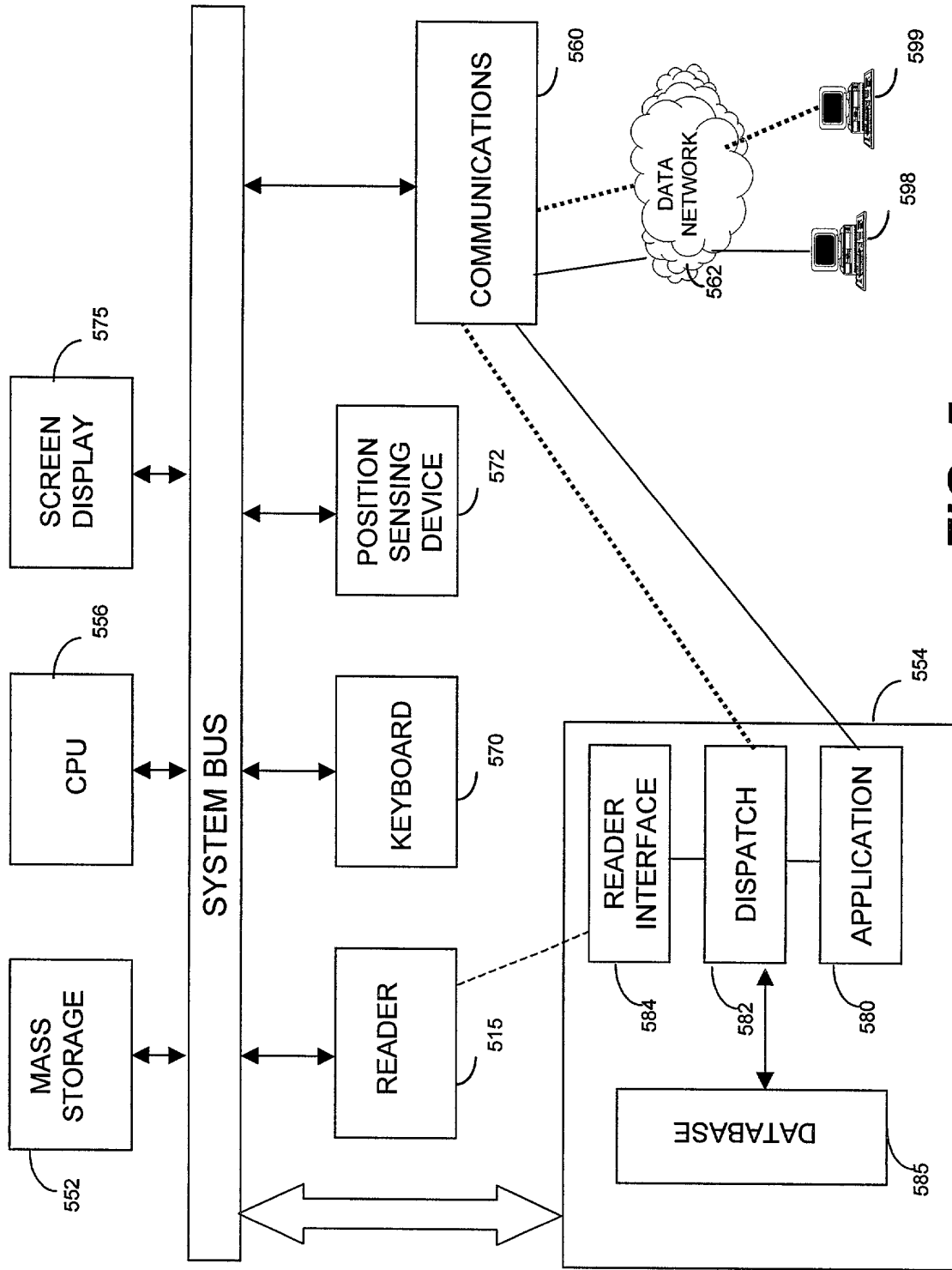


FIG. 4

FIG. 5 is a block diagram of a system architecture. The system includes a central SYSTEM BUS (554) connected to various components: MASS STORAGE (552), CPU (556), SCREEN DISPLAY (575), KEYBOARD (570), POSITION SENSING DEVICE (572), and COMMUNICATIONS (560). The COMMUNICATIONS block is connected to a DATA NETWORK (562), which in turn connects to external devices (598, 599). A detailed view of the COMMUNICATIONS block shows it contains a READER INTERFACE (584), a DISPATCH (582), an APPLICATION (580), and a DATABASE (585). The READER (515) is also connected to the SYSTEM BUS and the READER INTERFACE.



**FIG. 5**

FIG. 6 is a block diagram of a system architecture for a client software application. The system includes a client software layer (600) with a user interface (605) and a worker pipeline layer (610). The worker pipeline layer contains a cache worker (614), a token worker (616), a profile worker (617), a script worker (618), and an error worker (619). The client software layer also includes a data layer (630) with tag data (632), profile data (634), script data (636), and mapping tables (638). A cache and network service (639) is also present. The client software layer is connected to a device manager layer (620) which includes a browser manager (626) and a reader manager (622). The device manager layer is connected to a reader (624). The client software layer is also connected to a browser instance (via BHO) (628). The browser instance is connected to merchant servers (644). The merchant servers are connected to payment processors (642). The payment processors are connected to partner servers (640). The partner servers are connected to information servers (650). The information servers include a registration server (652), a profile server (654), a context server (656), a script/mappings server (655), and a transaction error server (659). The information servers are connected to a form filing library (670) which includes web spider monitors (676) and field identification tools (674). The form filing library is connected to information databases (660) which include a reader database (662), a profile database (664), and a token database (666). A script & mapping database (672) is also present.

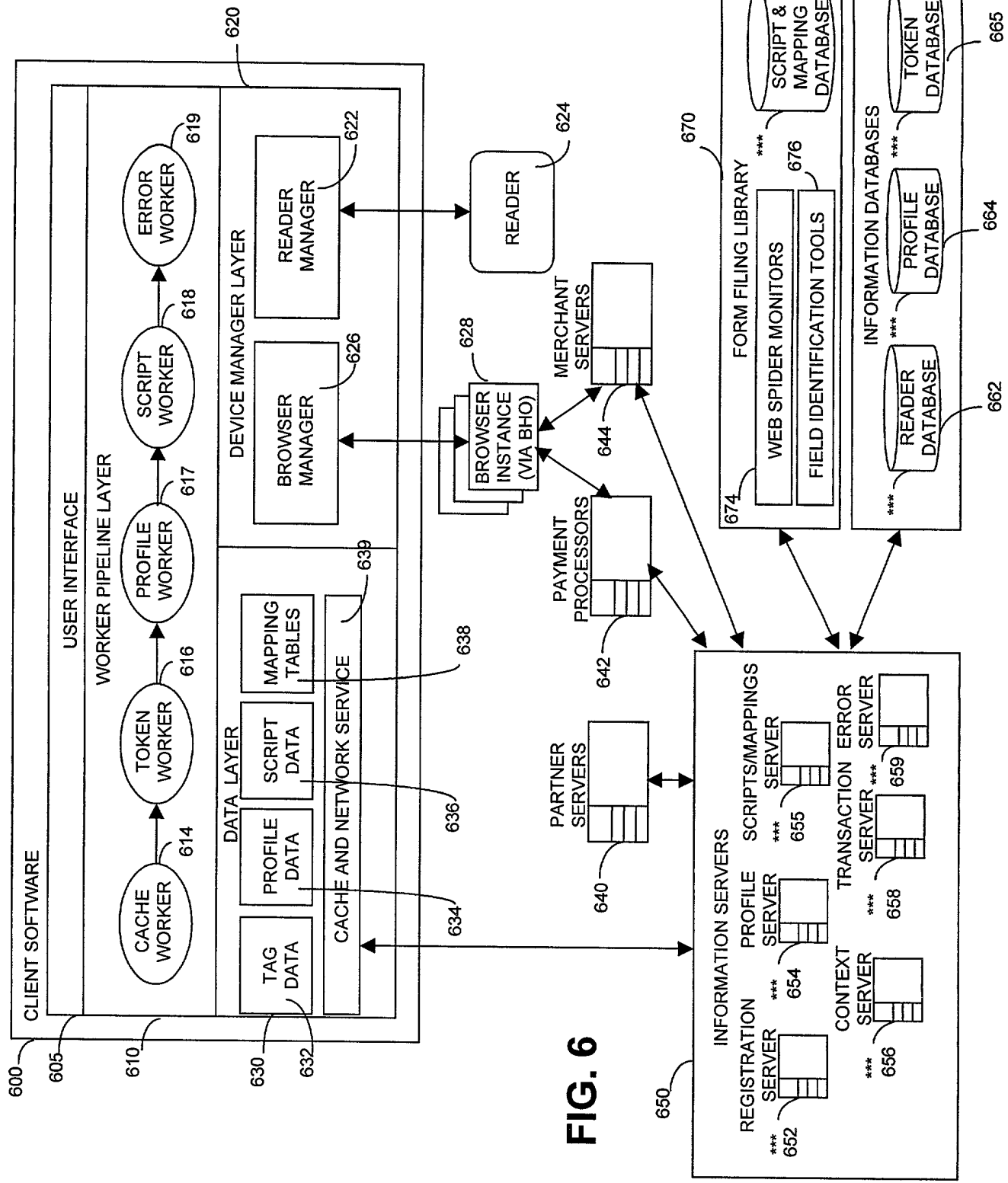


FIG. 6

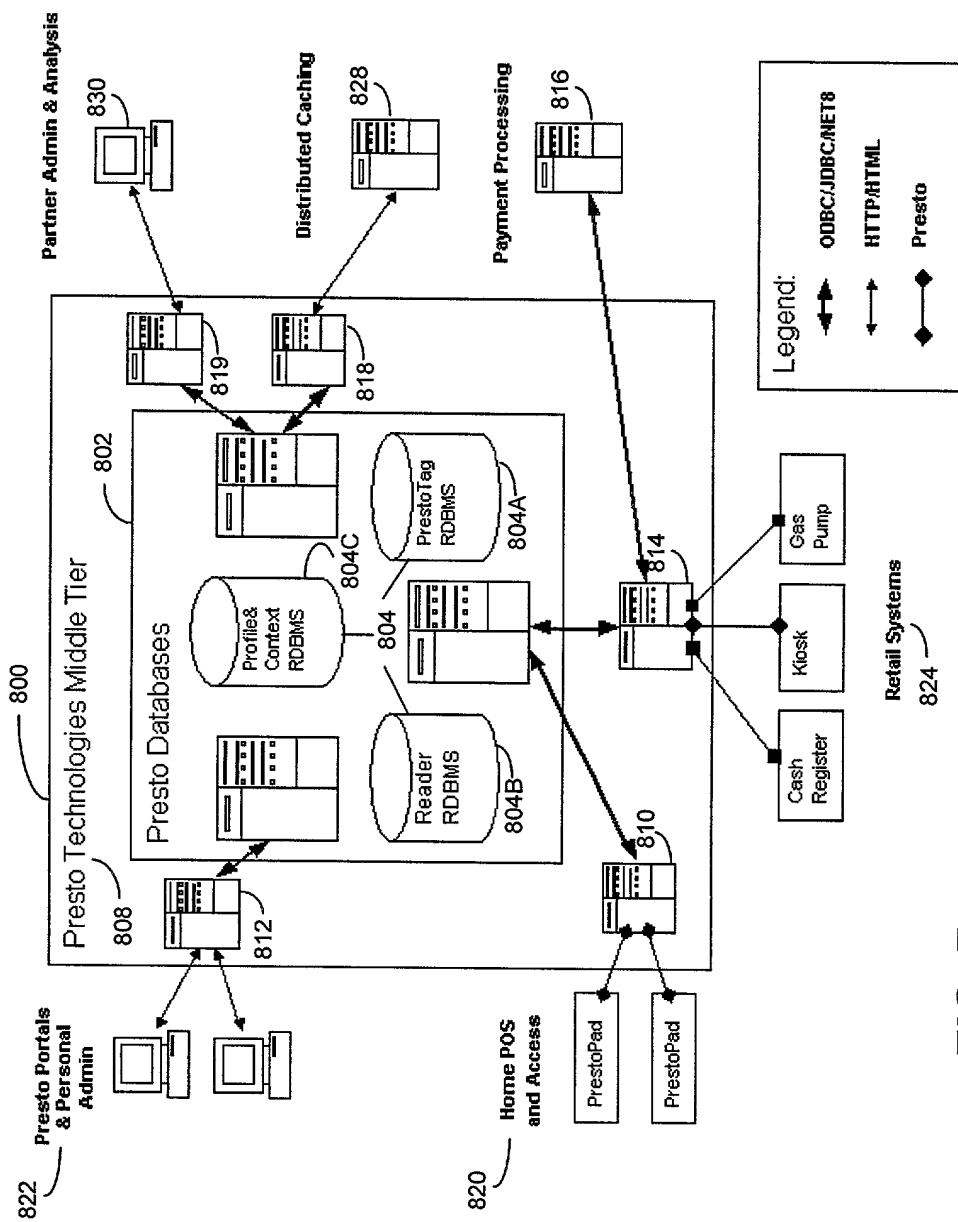




FIG. 8 is a block diagram of a system architecture for a retail environment. The system includes a user 905, a PC 910, a POS 920, a Retail Kiosk 930, Information Servers 950, and Information Databases 952. The user 905 is shown interacting with a device 905B and a card 905A. The PC 910 is connected to a PC Client Software 914. The POS 920 is connected to a POS Client Software 924. The Retail Kiosk 930 is connected to a Kiosk Client Software 934. All client software components (914, 924, 934) are connected to the Information Servers 950, which are in turn connected to the Information Databases 952. Each client device (910, 920, 930) also has a dedicated Reader (912, 922, 932) for data input.

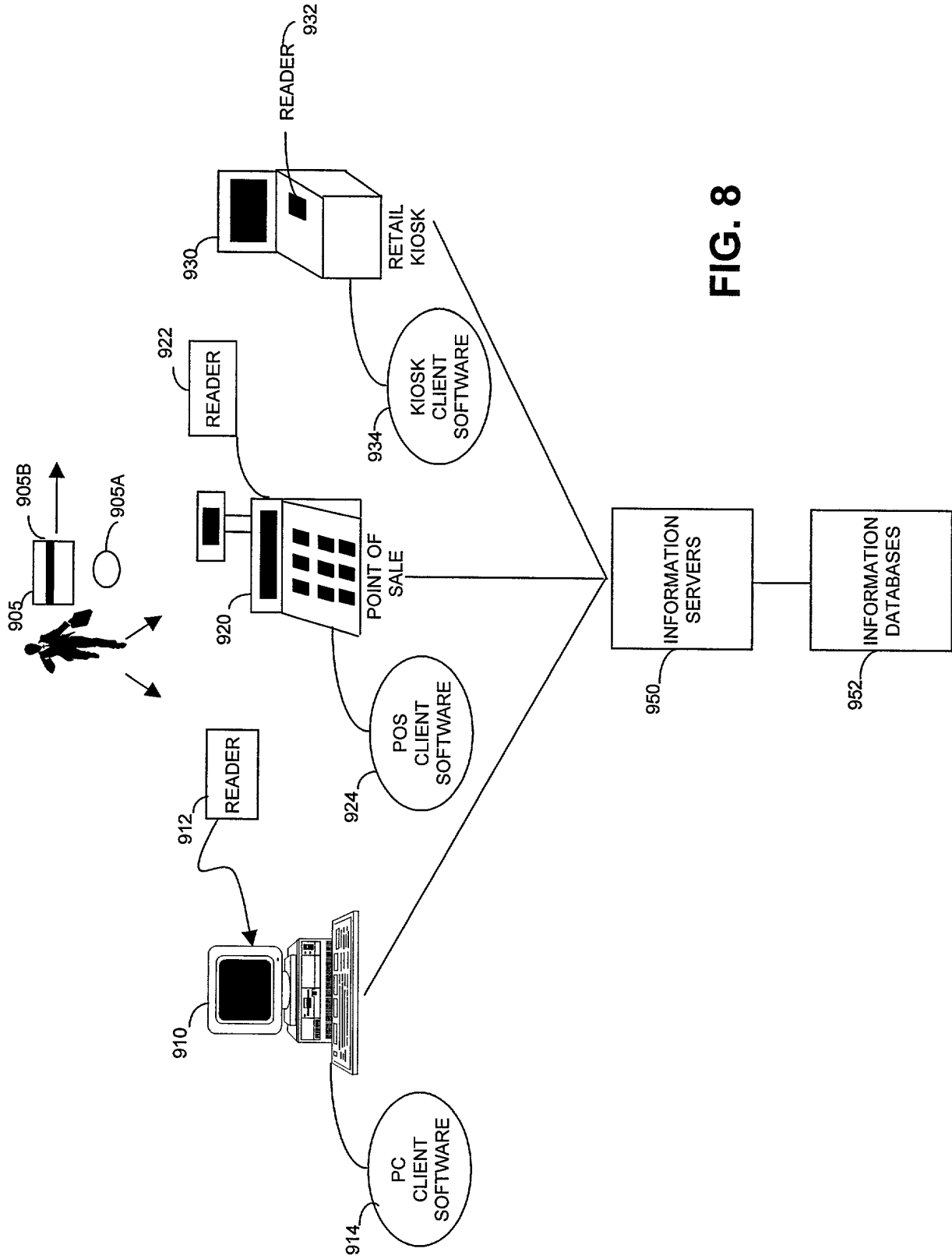


FIG. 8